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APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 09/828,351 04/06/2001 Niakam Kazemi 1712 47372 01/13/2005 **EXAMINER** BIRCH, STEWART, KOLASCH & BIRCH, LLP TRUONG, CAM Y T 8110 GATEHOUSE ROAD ART UNIT PAPER NUMBER **SUITE 100 EAST** FALLS CHURCH, VA 22042-1248 2162

DATE MAILED: 01/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)
Offic Action Summary		09/828,3		KAZEMI, NIAKAM
		Examine		Art Unit
		Cam Y T		2162
The MAILING DATE of this communication appears on the cover sheet with the correspondence address				
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).				
Status				
2a)□	This action is FINAL . 2b)⊠ This action is non-final.			
Disposition of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-26 is/are pending in the application. 4a) Of the above claim(s) 1-26 is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) 1-26 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.			
Application Papers				
 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. 				
Priority under 35 U.S.C. § 119				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 				
Attachment(s)				
1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 1) Notice of References Cited (PTO-892) Paper No(s)/Mail Date 4) Interview Summary (PTO-413) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:				

DETAILED ACTION

1. Applicant has amended claims 1 and 14 in the amendment filed on 10/1/2004.

Claims 1-26 are pending in this Office Action.

Applicant's arguments with respect to claims 1-26 have been considered but are most in view of the new ground(s) of rejection.

Abstract

2. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The abstract should be in narrative form and generally limited to a single paragraph on a separate sheet within the range of 50 to 150 words. It is important that the <u>abstract not exceed 150 words in length</u> since the space provided for the abstract on the computer tape used by the printer is limited. The form and legal phraseology often used in patent claims, such as "means" and "said," should be avoided. The abstract should describe the disclosure sufficiently to assist readers in deciding whether there is a need for consulting the full patent text for details.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure describes," etc.

Appropriate correction is required.

Claim Rejections - 35 USC § 101

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

4. Claims 1- 26 are rejected under 35 U.S.C.101 because the language of the claim raises a question as to whether the claim is directed merely to an abstract idea that is not tied to a technological art, environment or machine which would result in a practice application producing a concrete, useful, and tangible result to form the basis of statutory subject matter under 35 U.S.C 101.

As regarding to:

Claim 1 recites " a symptom data entity storing symptoms, which are observable states indicative of a defect, of manufacturing process defects; a defect data entity storing defects of the manufacturing process; and an action data entity storing repair actions for remedying related defects" and do not positively recite that the method is processed by a computer or a machine so as to realize its functionality. Thus, claim 1 is merely abstract idea and being processed without any links to a practical result in the technology arts and without computer manipulation.

Claims 2-13 claim "the manufacturing quality information database" and do not positively recite that the method is processed by a computer or a machine. Thus, the claimed invention is considered as non-functional descriptive material and is not directed to a computer or a manufacture article.

Claim 14 recites "storing symptoms, which are observable states indicative of a defect, of manufacturing process defects in a symptom data entity; storing defects of the manufacturing process in a defect data entity; and storing repair actions for remedying related defects in an action data entity" and do not

positively recite that the method is processed by a computer or a machine so as to realize its functionality. Thus, claim 1 is merely abstract idea and being processed without any links to a practical result in the technology arts and without computer manipulation.

Claims 15-26 claim "the method of using a manufacturing quality information database" and do not positively recite that the method is processed by a computer or a machine. Thus, the claimed invention is considered as non-functional descriptive material and is not directed to a computer or a manufacture article.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35U.S.C. 102 that form the basis for the rejections under this section made in thisOffice action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 6. Claims 1-6, 12, 14-19 and 25 are rejected under 35 U.S.C. 102(e) as being by Jujiwara et al (or hereinafter "Jujiwara") (US 6801822).

As to claims 1 and 14, Jujiwara teaches a manufacturing quality information database stored in a computer-readable medium and usable for

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tracking quality information relating to a manufacturing process (fig. 10, col. 10, lines 45-52), comprising:

"a symptom data entity storing symptoms, which are observable states indicative of a defect, of manufacturing process defects" as nature of defect 1 stores states indicative of a defect, e.i. earth lead, abnormal image, vertical white stripe and paper end could not turn on (figs. 131 & 108);

"a defect data entity storing defects of the manufacturing process" as defective item stores defects of manufacturing process (figs. 31A-31F);

"an action data entity storing repair actions for remedying related defects" as repair contents entity stores repair actions such as exchanges, revision for related defect (fig. 131);

" said defect data entity being associated with said symptom data entity" as defective item is associated with nature of defect 1 (fig. 131);

"said action data entity being associated with said defect data entity" as repair contents is associated with defective item (fig. 131).

As to claims 2 and 15, Jujiwara teaches the manufacturing quality information database (figs. 10&131, col. 10, lines 45-52)

"wherein said manufacturing quality information database tracks a plurality of manufacturing processes" as shown in fig. 131,

"the manufacturing quality information database further comprising: a process data entity storing identities of the manufacturing processes" as process

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or processing names entity stores names, i.e., image check 01, completion check 01 as identities of the manufacturing processes (fig. 39);

"said symptom data entity, said defect data entity, and said action data entity being associated with said process data entity" as natural of defect 1 entity, defective item entity, repair contents entity are associated with processing name entity (fig. 131).

As to claims 3 and 16, Fujiwara teaches the claimed limitations:

"wherein said manufacturing quality information database track a plurality of manufactured items" as tracking a plurality of machines (fig. 112);

"the manufacturing quality information database further comprising: an item data entity storing identities of manufactured items" as machine number entity stores machine numbers of manufactured machines (fig. 112);

"said symptom data entity, said defect data entity, and said action data entity being associated with said item data entity" as natural of defect 1 entity, defective item entity and repair of content entity are associated with machine number entity (fig. 131).

As to claims 4 and 17, Fujiwara teaches the claimed limitations:

"a symptom category data entity for storing symptom categories of manufacturing defects" as data item entity stores different types of natural of defects such as nature of defect 1 entity, nature of defect 2 entity. Each natural of defect entity stores different natural of defect; thus, data item store different natural of defects. Data item entity is represented as a symptom category data entity. Nature of defect 1 and natural of defect 2 are represented as categories of manufacturing defects (fig. 14);

" said symptom data entity being associated with said symptom category data entity" as nature of defect 1 entity is associated with data item entity (figs. 14 &131).

As to claims 5 and 18, Fujiwara teaches the claimed limitations:

"wherein said manufacturing quality information database tracks a plurality of manufacturing processes" as (fig. 131),

"a process data entity storing identities of the manufacturing processes" as process or processing names entity stores names, i.e., image check 01, completion check 01 as identities of the manufacturing processes (fig. 39);

"the manufacturing quality information database further comprising: a process data entity storing identities of the manufacturing processes" as (fig. 39)

" a process/symptom frequency data entity observing a relationship frequency between the symptom categories and the manufacturing process identifies" as the number of defects entity is represented as a process/symptom frequency data (fig. 110).

As to claims 6 and 19, Fujiwara teaches the claimed limitations:

"a defect category data entity for storing defect categories of the manufacturing process" as items entity stores defective item entity. Since

defective item entity store different kind of defects; thus, items entity stores different type of defects of the manufactory process (fig. 76);

"said defect data entity being associated with said defect category data entity" as items entity stores defective item entity. Since defective item entity store different kind of defects; thus, items entity stores different type of defects of the manufactory process (fig. 76).

As to claims 12 and 25, Fujiwara teaches the claimed limitations:

"a symptom category data entity storing symptom categories of manufacturing defects" as data item entity stores different types of natural of defects such as nature of defect 1 entity, nature of defect 2 entity. Each natural of defect entity stores different natural of defect; thus, data item store different natural of defects. Data item entity is represented as a symptom category data entity. Nature of defect 1 and natural of defect 2 are represented as categories of manufacturing defects (fig. 14);

"a defect category data entity storing defect categories of the manufacturing process" as items entity stores defective item entity. Since defective item entity store different kind of defects; thus, items entity stores different type of defects of the manufactory process (fig. 76);

"said symptom data entity being associated with said symptom category data entity" as nature of defect 1 entity is associated with data item entity (figs. 14 &131).

"said defect data entity being associated with said defect category data entity" as items entity stores defective item entity. Since defective item entity store different kind of defects; thus, items entity stores different type of defects of the manufactory process (fig. 76)

"said defect category entity being associated with said symptom category" as (figs. 14 &131).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 7 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujiwara in view of Morioka (US 6611728).

As to claims 7 and 20 Fujiwara does not explicitly teach the claimed limitation "a symptom/defect frequency data entity observing a relationship frequency between the symptom categories and the defect categories". Morioka teaches defect category and number of defect during process (figs. 31 &9).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Morioka's teaching of defect category and

number of defect during process to Fujiwara's system in order to repair defects of product efficiently.

9. Claims 8, 9, 13, 21-22 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fujiwara.

As to claims 8 and 21, Fujiwara discloses the claimed limitation subject matter in claim 1, except the claimed limitation "an action category data entity storing action categories; said action data entity being associated with said action category data entity". However, Fujiwara teaches items entity store different type of repair contents. Since different each repair content stores different action repair content. Thus, items entity store different action repair content. Items entity is associated with each repair content entity (fig. 76).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Fujiwara's teaching of teaches items entity store different type of repair contents. Since different each repair content stores different action repair content. Thus, items entity store different action repairs content in order to allow a user to keep track all of defects of products in order easily.

As to claims 9 and 22, Fujiwara discloses the claimed limitation subject matter in claim 8, except the claimed limitation "a defect/action frequency data entity observing a relationship frequency between the defect categories and the

action categories". However, Fujiwara teaches items entity stores the number of defects that related to defective item and repair contents (fig. 76).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Fujiwara's teaching of teaches items entity store different type of repair contents. Since different each repair content stores different action repair content. Thus, items entity stores different action repair content in order to allow a user to keep track all of defects of products that are repair in order easily.

As to claims 13 and 26, Fujiwara teaches the claimed limitations:

"a defect category data entity storing defect categories of the manufacturing process" as items entity stores defective item entity. Since defective item entity store different kind of defects; thus, items entity stores different type of defects of the manufactory process (fig. 76);

"said defect data entity being associated with said defect category data entity" as (figs. 76 &131).

Fujiwara does not explicitly teach the claimed limitation "an action category data entity storing action categories; said action data entity being associated with said action category data entity". However, Fujiwara teaches items entity store different type of repair contents. Since different each repair content stores different action repair content. Thus, items entity store different action repair content. Items entity is associated with each repair content (fig. 76).

It would have been obvious to a person of an ordinary skill in the art at the time the invention was made to apply Fujiwara's teaching of teaches items entity store different type of repair contents. Since different each repair content stores different action repair content. Thus, items entity stores different action repair content in order to allow a user to keep track all of defects of products that are repair in order easily.

Conclusion

10. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Dor et al (US 6744266).

Contact Information

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cam Y T Truong whose telephone number is (571) 272-4042. The examiner can normally be reached on Monday to Firday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Breene can be reached on (571) 272-4107. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cam-Y Truong Patent Examiner Art Unit 2162 1/10/2005

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